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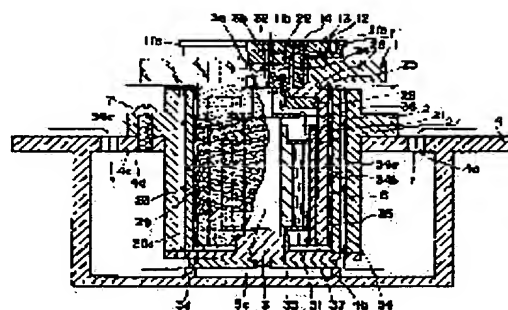
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(54) MOTOR WITH POLYGON MIRROR

(57)Abstract:

PURPOSE: To obviate the occurrence of seizure between dynamic pressure bearing surfaces and to prevent the splashing of worn powder (resin powder).

CONSTITUTION: This motor with a polygon mirror rotates a rotor 2 mounted with the polygon mirror 1 for scanning light by generating a dynamic pressure effect between the bearing surfaces of the rotor 2 and a bearing member 34 for freely rotatably supporting the rotor 2, i.e., between the outer peripheral surface 23 of the rotor 2 and the inner peripheral surface 35 of the bearing member 34 in the state of floating the rotor 2. The film of a polyamide mixed with 10 to 80wt.% polytetrafluoroethylene is formed on at least either of the outer peripheral surface 23 of the rotor 2 and the inner peripheral surface 35 of the bearing member 34. In such a case, the polyamide film formed as the film is preferably mixed with 30 to 60wt.% polytetrafluoroethylene.

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